

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MATERIAL IDENTITY**

**MSDS CODE AND NAME**

**INFU-CURE HARDENER**

---

**Chemical Name and/or Family or Description:**

Epoxy Hardener

**COMPANY INFORMATION**

PHOENIX RESINS . MAS EPOXIES  
2615 River Road #3A  
Cinnaminson, NJ 08077

**TELEPHONE NUMBERS**

Transportation Emergency

Company: (888) 627 -3769

CHEMTREC: (800) 424-9300

Medical Emergency: 911

General MSDS Assistance: (856 )303-9245

Technical Information: (888) 627-3769

Or lab 877-374-9802

**2. COMPOSITION AND INFORMATION ON INGREDIENTS**

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION ARE AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA IARC NTP OTHER NONE X

**Composition:**

<b>Chemical Name Number</b>	<b>CAS</b>	<b>Exposure Limits</b>	<b>Range in %</b>
Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)-	9046-10-0		TRADE SECRET

**3. HAZARD IDENTIFICATION  
EMERGENCY OVERVIEW**

**Appearance:**

Colorless to slightly yellow liquid with a slight haze

**Odor:**

Ammonia-like

**WARNING STATEMENT**

DANGER !

CORROSIVE - CAUSES EYE AND SKIN BURNS HARMFUL OR FATAL IF SWALLOWED CAUSES RESPIRATORY TRACT IRRITATION AND CAN CAUSE DAMAGE ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE

**Hazardous Material Information System**

Rating	Health	Flammability	Reactivity
HMIS	3	1	0
NFPA	3	1	0

**POTENTIAL HEALTH EFFECTS**

**Primary Route of Exposure**

Eye X Skin X Inhalation X Ingestion

**Effects of Overexposure**

**Acute:**

**Eyes:**

Causes irritation, experienced as pain, with excess blinking and tear production, and seen as extreme redness and swelling of the eye and chemical burns of the eye. Severe eye damage may cause blindness.

**Skin:**

Causes severe irritation with pain, severe excess redness and swelling with chemical burns, blister formation, and possible tissue destruction. Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

**Inhalation:**

Vapors or mist, especially as generated from heating the material or as from exposure in poorly ventilated areas or confined spaces, are irritating and cause nasal discharge, coughing, and discomfort in nose and throat. Prolonged or repeated overexposure may result in lung damage.

**Ingestion**

Aspiration may occur during swallowing or vomiting, resulting in lung damage. Causes burning of mouth, throat, and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness, and collapse.

**Sensitization Properties:** This product is not expected to be a human skin sensitizer based on animal data. Repeated skin contact may cause a persistent irritation or dermatitis. Repeated inhalation may cause lung damage.

**Medical Conditions Aggravated by Exposure:**

Skin contact may aggravate an existing dermatitis (skin condition). Overexposure to vapor, dust or mist may aggravate existing respiratory conditions, such as asthma, bronchitis, and inflammatory or fibrotic respiratory disease.

## MSDS INFUCURE

This product contains one or more amines which may produce temporary and reversible hazy or blurred vision. Symptoms disappear when exposure is terminated.

### 4. FIRST AID MEASURES

#### Eyes

Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention immediately. Continue flushing for an additional 15 minutes if medical attention is not immediately available.

#### Skin

: Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Discard or decontaminate clothing and shoes before reuse.

#### Ingestion:

If person is conscious and can swallow, immediately give two glasses of water (16 oz.), but do not induce vomiting. This material is corrosive. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

#### Inhalation:

If inhaled, remove to fresh air. If not breathing or in respiratory distress, clear person's airway and start artificial respiration. With a physician's advice, give supplemental oxygen using a bag-valve mask or manually triggered oxygen supply.

#### Other Instructions:

Swallowing of this corrosive material may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this product during induced emesis can result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment information.

### 5. FIRE-FIGHTING MEASURES

#### Ignition Temperature - AIT (degrees C):

Not determined.

#### Flash Point (degrees C):

121.1 (250°F) (PMCC)

**Flammable Limits % (Lower-Upper):** Lower: Not determined. Upper: Not determined.

#### Recommended Fire Extinguishing Agents And Special Procedures:

Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

**Unusual or Explosive Hazards:** None

#### Special Protective Equipment for Firefighters:

Wear special chemical protective clothing and positive pressure self-contained breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residues.

## **Procedures in Case of Accidental Release, Breakage or Leakage:**

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

## **7. HANDLING AND STORAGE**

### **Precautions to be Taken in**

#### **Handling:**

Minimum feasible handling temperatures should be maintained. Eye wash and safety shower should be available nearby when this product is handled or used.

#### **Storage:**

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. If stored above 100°F, a nitrogen atmosphere is recommended.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Protective Equipment (Type)**

#### **Eye/Face Protection:**

- Avoid eye contact. Chemical type goggles with face shield must be worn. Do not wear contact lenses.

#### **Skin Protection:**

Protective clothing such as coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

#### **Respiratory Protection:**

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

#### **Ventilation:**

Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use NIOSH approved respirator as appropriate.

#### **Exposure Limit for the Total Product:**

None established for product.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance:**

Colorless to slightly yellow liquid with a slight haze

### **Odor:**

Ammonia-like

### **Boiling Point (degrees C):**

260 (500°F)

### **Melting/Freezing Point (degrees C):**

Not determined.

**Specific Gravity (water=1):** 0.948 @ 20/20°C  
**pH:** 11.7 (5% aqueous)  
**Vapor Pressure:** 1 mmHg at 100°C (212°F)  
**Viscosity:** 9.5 cSt at 25°C (77°F)  
**VOC Content:** 25% by ASTM D 2369  
**Vapor Density (Air=1):** >1  
**Solubility in Water (%):** >10  
**Other:** None

## 10. STABILITY AND REACTIVITY

**This Material Reacts Violently With:**

**Air** **Water** **Heat** **Strong Oxidizers** **Others** X **None of these**

**Comments:**

This material reacts violently with acids.

**Products Evolved When Subjected to Heat or Combustion:**

Toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning in a limited air supply.

**Hazardous Polymerizations:** DO NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)**

**Oral:**

LD50 2.88 g/kg (rat) slightly toxic

**Dermal:**

LD50 2.98 g/kg (rabbit) practically non-toxic

**Inhalation:**

Not determined.

**IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)**

**Eyes:**

(Draize) Believed to be > 80.00 - 110.00 /110 (rabbit) extremely irritating

**Skin:**

(Draize) Believed to be > 6.50 - 8.00 /8.0 (rabbit) corrosive

**Sensitization:**

(Buehler) Negative - skin (guinea pig)

**Other:**

None

## **12. DISPOSAL CONSIDERATIONS:**

### **Waste Disposal Methods:**

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

### **Remarks:**

None

## **13. TRANSPORT INFORMATION**

### **Transportation**

#### **DOT:**

#### **Proper Shipping Name:**

Amines, liquid, corrosive, n.o.s. (polyoxypropylene diamine)

#### **Hazard Class:**

Class 8: Corrosive material

#### **Identification Number:**

UN2735

#### **Packing Group:**

III

#### **Label Required:**

Class 8: Corrosive

#### **IMDG**

#### **Proper Shipping Name:**

AMINES, LIQUID, CORROSIVE, N.O.S. (polyoxypropylene diamine)

#### **Hazard Class**

Class 8

#### **Identification Number**

UN2735

#### **Packing Group**

III

#### **Label Required**

Class 8 - Corrosive substances

#### **ICAO**

#### **Proper Shipping Name:**

Amines, liquid, corrosive, n.o.s. (polyoxypropylene diamine)

#### **Hazard Class**

Class 8

#### **Identification Number**

UN2735

#### **Packing Group**

III

#### **Label Required**

Class 8 - Corrosive

**TDG**

**Proper Shipping Name:**

Corrosive liquid, n.o.s. (polyoxypropylene diamine)

**Hazard Class:**

8

**Identification Number:**

UN1760

**Packing Group:**

III

**Label Required:**

Corrosive

**14. REGULATORY INFORMATION**

**Federal Regulations:**

**SARA Title III:**

Section 302/304 Extremely Hazardous Substances

Chemical Name	CAS Number	Range in %	TPQ	RQ	None.
---------------	------------	------------	-----	----	-------

**Section 311 Hazardous Categorization:**

Acute X Chronic Fire Pressure Reactive N/A

**Section 313 Toxic**

Chemical

Chemical Name

CAS

Number

Concentration

None.

**CERCLA 102(a)/DOT Hazardous Substances:**

Chemical Name NONE

**States Right-to-Know Regulations:**

Chemical Name

State Right-to-know None.

**California Prop. 65:**

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name

CAS Number None.

**INTERNATIONAL REGULATIONS:**

**TSCA Inventory Status:**

This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**WHMIS Classification:**

Class E: Corrosive

**Canadian Inventory Status:**

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

**EINECS Inventory Status:**

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

**Australian Inventory Status:**

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

**Japan Inventory Status:**

This product, or its components, are listed on or are exempt from the Japan Ministry of International Trade and Industry (MITI) inventory.

**15. ENVIRONMENTAL INFORMATION**

**Aquatic Toxicity:** Not determined.

**Mobility:** Not determined.

**Persistence and Biodegradability:** Not determined.

**Potential to Bioaccumulate:** Not determined.

**Remarks:** one

**16. OTHER INFORMATION 7/1/2004**

None